

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU122018\  
 Data File : VU028846.D  
 Acq On : 20 Dec 2018 23:56  
 Operator : MD/SY  
 Sample : J6513-02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F9F53

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
 Title : VOC Analysis

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.398       | 63            | 70          | 83           | rVB      | 101183         | 100825        | 14.72%          | 1.849%        |
| 2         | 1.672       | 148           | 155         | 173          | rVB      | 75961          | 94067         | 13.73%          | 1.725%        |
| 3         | 2.270       | 330           | 341         | 353          | rBV      | 146835         | 222141        | 32.43%          | 4.073%        |
| 4         | 2.447       | 386           | 396         | 415          | rBV2     | 19041          | 34169         | 4.99%           | 0.626%        |
| 5         | 2.836       | 506           | 517         | 530          | rVB2     | 5910           | 11592         | 1.69%           | 0.213%        |
| 6         | 2.890       | 530           | 534         | 539          | rVB      | 142            | 154           | 0.02%           | 0.003%        |
| 7         | 3.077       | 589           | 592         | 594          | rBV      | 135            | 75            | 0.01%           | 0.001%        |
| 8         | 3.360       | 677           | 680         | 684          | rBV      | 84             | 59            | 0.01%           | 0.001%        |
| 9         | 3.450       | 705           | 708         | 711          | rBV      | 144            | 104           | 0.02%           | 0.002%        |
| 10        | 3.495       | 717           | 722         | 725          | rBV      | 120            | 111           | 0.02%           | 0.002%        |
| 11        | 3.607       | 751           | 757         | 761          | rVB      | 119            | 119           | 0.02%           | 0.002%        |
| 12        | 3.633       | 761           | 765         | 767          | rBV      | 106            | 78            | 0.01%           | 0.001%        |
| 13        | 3.823       | 821           | 824         | 829          | rVB      | 95             | 83            | 0.01%           | 0.002%        |
| 14        | 3.848       | 829           | 832         | 836          | rBV      | 114            | 94            | 0.01%           | 0.002%        |
| 15        | 3.967       | 866           | 869         | 877          | rBV      | 102            | 96            | 0.01%           | 0.002%        |
| 16        | 4.096       | 906           | 909         | 912          | rBV      | 85             | 84            | 0.01%           | 0.002%        |
| 17        | 4.176       | 920           | 934         | 970          | rBV      | 73076          | 204723        | 29.89%          | 3.754%        |
| 18        | 4.553       | 1048          | 1051        | 1053         | rBV      | 102            | 68            | 0.01%           | 0.001%        |
| 19        | 4.646       | 1062          | 1080        | 1107         | rBV      | 112120         | 258457        | 37.73%          | 4.739%        |
| 20        | 4.787       | 1121          | 1124        | 1128         | rBV      | 89             | 76            | 0.01%           | 0.001%        |
| 21        | 4.887       | 1149          | 1155        | 1162         | rVB2     | 426            | 549           | 0.08%           | 0.010%        |
| 22        | 4.942       | 1169          | 1172        | 1178         | rBB      | 75             | 58            | 0.01%           | 0.001%        |
| 23        | 4.980       | 1181          | 1184        | 1185         | rBV      | 535            | 248           | 0.04%           | 0.005%        |
| 24        | 5.122       | 1222          | 1228        | 1233         | rBV      | 105            | 144           | 0.02%           | 0.003%        |
| 25        | 5.337       | 1272          | 1295        | 1320         | rBV2     | 235130         | 684952        | 100.00%         | 12.558%       |
| 26        | 5.569       | 1365          | 1367        | 1373         | rVB2     | 173            | 172           | 0.03%           | 0.003%        |
| 27        | 5.617       | 1379          | 1382        | 1385         | rVV2     | 208            | 140           | 0.02%           | 0.003%        |
| 28        | 5.816       | 1441          | 1444        | 1447         | rBV      | 98             | 83            | 0.01%           | 0.002%        |
| 29        | 5.884       | 1451          | 1465        | 1494         | rBV      | 223732         | 437591        | 63.89%          | 8.023%        |
| 30        | 6.196       | 1554          | 1562        | 1569         | rBV3     | 1668           | 2902          | 0.42%           | 0.053%        |
| 31        | 6.327       | 1589          | 1603        | 1622         | rBV      | 158673         | 316794        | 46.25%          | 5.808%        |
| 32        | 6.533       | 1664          | 1667        | 1672         | rBV      | 83             | 95            | 0.01%           | 0.002%        |
| 33        | 6.556       | 1672          | 1674        | 1678         | rVB      | 185            | 98            | 0.01%           | 0.002%        |
| 34        | 6.620       | 1691          | 1694        | 1699         | rVB2     | 189            | 190           | 0.03%           | 0.003%        |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |        |        |        |
|----|-------|------|------|------|------|--------|--------|--------|--------|
| 35 | 6.652 | 1699 | 1704 | 1715 | rBV  | 161    | 185    | 0.03%  | 0.003% |
| 36 | 6.700 | 1715 | 1719 | 1720 | rBV  | 102    | 67     | 0.01%  | 0.001% |
| 37 | 6.720 | 1723 | 1725 | 1729 | rBV2 | 140    | 95     | 0.01%  | 0.002% |
| 38 | 6.813 | 1751 | 1754 | 1760 | rVB  | 249    | 191    | 0.03%  | 0.004% |
| 39 | 6.909 | 1782 | 1784 | 1789 | rVB2 | 240    | 140    | 0.02%  | 0.003% |
| 40 | 6.951 | 1794 | 1797 | 1800 | rBV  | 101    | 77     | 0.01%  | 0.001% |
| 41 | 7.086 | 1837 | 1839 | 1842 | rVB  | 191    | 73     | 0.01%  | 0.001% |
| 42 | 7.118 | 1847 | 1849 | 1852 | rVB  | 143    | 68     | 0.01%  | 0.001% |
| 43 | 7.225 | 1870 | 1882 | 1904 | rVV  | 89390  | 159233 | 23.25% | 2.919% |
| 44 | 7.369 | 1923 | 1927 | 1932 | rBV2 | 284    | 222    | 0.03%  | 0.004% |
| 45 | 7.395 | 1932 | 1935 | 1937 | rBV  | 128    | 73     | 0.01%  | 0.001% |
| 46 | 7.408 | 1937 | 1939 | 1941 | rBV  | 230    | 118    | 0.02%  | 0.002% |
| 47 | 7.453 | 1951 | 1953 | 1957 | rVB  | 137    | 77     | 0.01%  | 0.001% |
| 48 | 7.495 | 1963 | 1966 | 1968 | rBV  | 165    | 126    | 0.02%  | 0.002% |
| 49 | 7.562 | 1972 | 1987 | 2014 | rBV  | 308215 | 543535 | 79.35% | 9.966% |
| 50 | 7.813 | 2063 | 2065 | 2066 | rBV  | 228    | 123    | 0.02%  | 0.002% |
| 51 | 7.848 | 2066 | 2076 | 2102 | rVB  | 62271  | 103337 | 15.09% | 1.895% |
| 52 | 7.958 | 2108 | 2110 | 2113 | rVB  | 222    | 88     | 0.01%  | 0.002% |
| 53 | 8.038 | 2133 | 2135 | 2137 | rVB  | 171    | 68     | 0.01%  | 0.001% |
| 54 | 8.118 | 2157 | 2160 | 2163 | rVB2 | 265    | 149    | 0.02%  | 0.003% |
| 55 | 8.179 | 2169 | 2179 | 2187 | rBV3 | 1663   | 2878   | 0.42%  | 0.053% |
| 56 | 8.228 | 2187 | 2194 | 2203 | rVB2 | 2769   | 4021   | 0.59%  | 0.074% |
| 57 | 8.308 | 2206 | 2219 | 2251 | rBV  | 245689 | 419261 | 61.21% | 7.687% |
| 58 | 8.597 | 2306 | 2309 | 2317 | rBV3 | 361    | 371    | 0.05%  | 0.007% |
| 59 | 8.630 | 2317 | 2319 | 2321 | rBV  | 173    | 82     | 0.01%  | 0.002% |
| 60 | 8.662 | 2327 | 2329 | 2331 | rBV  | 256    | 138    | 0.02%  | 0.003% |
| 61 | 8.752 | 2354 | 2357 | 2358 | rBV  | 141    | 61     | 0.01%  | 0.001% |
| 62 | 8.810 | 2372 | 2375 | 2377 | rBV  | 98     | 60     | 0.01%  | 0.001% |
| 63 | 8.826 | 2377 | 2380 | 2383 | rVV  | 160    | 92     | 0.01%  | 0.002% |
| 64 | 8.935 | 2408 | 2414 | 2425 | rVB  | 142    | 240    | 0.04%  | 0.004% |
| 65 | 8.980 | 2426 | 2428 | 2431 | rBV  | 161    | 69     | 0.01%  | 0.001% |
| 66 | 9.009 | 2435 | 2437 | 2440 | rVB  | 206    | 88     | 0.01%  | 0.002% |
| 67 | 9.028 | 2441 | 2443 | 2446 | rVB2 | 129    | 75     | 0.01%  | 0.001% |
| 68 | 9.089 | 2449 | 2462 | 2499 | rBV  | 319926 | 529213 | 77.26% | 9.703% |
| 69 | 9.234 | 2505 | 2507 | 2509 | rBV2 | 153    | 82     | 0.01%  | 0.002% |
| 70 | 9.302 | 2525 | 2528 | 2533 | rBV2 | 286    | 163    | 0.02%  | 0.003% |
| 71 | 9.376 | 2546 | 2551 | 2552 | rBV  | 433    | 304    | 0.04%  | 0.006% |

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If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 9.443  | 2569 | 2572 | 2575 | rBV  | 115    | 86     | 0.01%  | 0.002% |
| 73  | 9.462  | 2575 | 2578 | 2581 | rBV  | 111    | 98     | 0.01%  | 0.002% |
| 74  | 9.652  | 2634 | 2637 | 2641 | rBV  | 289    | 175    | 0.03%  | 0.003% |
| 75  | 10.031 | 2752 | 2755 | 2757 | rBV  | 153    | 87     | 0.01%  | 0.002% |
| 76  | 10.093 | 2772 | 2774 | 2776 | rBV  | 169    | 57     | 0.01%  | 0.001% |
| 77  | 10.160 | 2791 | 2795 | 2796 | rBV2 | 609    | 423    | 0.06%  | 0.008% |
| 78  | 10.292 | 2833 | 2836 | 2838 | rBV  | 156    | 97     | 0.01%  | 0.002% |
| 79  | 10.430 | 2866 | 2879 | 2899 | rBV  | 228367 | 358781 | 52.38% | 6.578% |
| 80  | 10.546 | 2912 | 2915 | 2918 | rVV  | 178    | 93     | 0.01%  | 0.002% |
| 81  | 10.604 | 2922 | 2933 | 2947 | rVB4 | 1810   | 3729   | 0.54%  | 0.068% |
| 82  | 10.732 | 2971 | 2973 | 2979 | rVB  | 272    | 260    | 0.04%  | 0.005% |
| 83  | 10.874 | 3014 | 3017 | 3019 | rBV  | 116    | 72     | 0.01%  | 0.001% |
| 84  | 11.215 | 3120 | 3123 | 3128 | rBV  | 205    | 118    | 0.02%  | 0.002% |
| 85  | 11.244 | 3129 | 3132 | 3135 | rBV  | 209    | 110    | 0.02%  | 0.002% |
| 86  | 11.482 | 3195 | 3206 | 3235 | rBV  | 291713 | 456276 | 66.61% | 8.366% |
| 87  | 11.623 | 3248 | 3250 | 3255 | rVB2 | 266    | 131    | 0.02%  | 0.002% |
| 88  | 11.694 | 3267 | 3272 | 3273 | rBV2 | 340    | 241    | 0.04%  | 0.004% |
| 89  | 11.761 | 3286 | 3293 | 3300 | rBV6 | 1807   | 2583   | 0.38%  | 0.047% |
| 90  | 11.858 | 3310 | 3323 | 3345 | rBV  | 286190 | 459283 | 67.05% | 8.421% |
| 91  | 12.189 | 3422 | 3426 | 3430 | rBV  | 233    | 239    | 0.03%  | 0.004% |
| 92  | 12.250 | 3440 | 3445 | 3452 | rBV3 | 890    | 1125   | 0.16%  | 0.021% |
| 93  | 12.289 | 3454 | 3457 | 3463 | rVB2 | 400    | 308    | 0.04%  | 0.006% |
| 94  | 12.359 | 3472 | 3479 | 3482 | rBV3 | 755    | 930    | 0.14%  | 0.017% |
| 95  | 12.414 | 3493 | 3496 | 3499 | rBV2 | 196    | 146    | 0.02%  | 0.003% |
| 96  | 12.453 | 3506 | 3508 | 3510 | rBV  | 317    | 207    | 0.03%  | 0.004% |
| 97  | 13.121 | 3708 | 3716 | 3726 | rVB2 | 5440   | 7703   | 1.12%  | 0.141% |
| 98  | 13.617 | 3868 | 3870 | 3873 | rBV3 | 556    | 316    | 0.05%  | 0.006% |
| 99  | 13.748 | 3905 | 3911 | 3924 | rVB2 | 6701   | 9897   | 1.44%  | 0.181% |
| 100 | 14.883 | 4257 | 4264 | 4278 | rVB2 | 8764   | 14152  | 2.07%  | 0.259% |

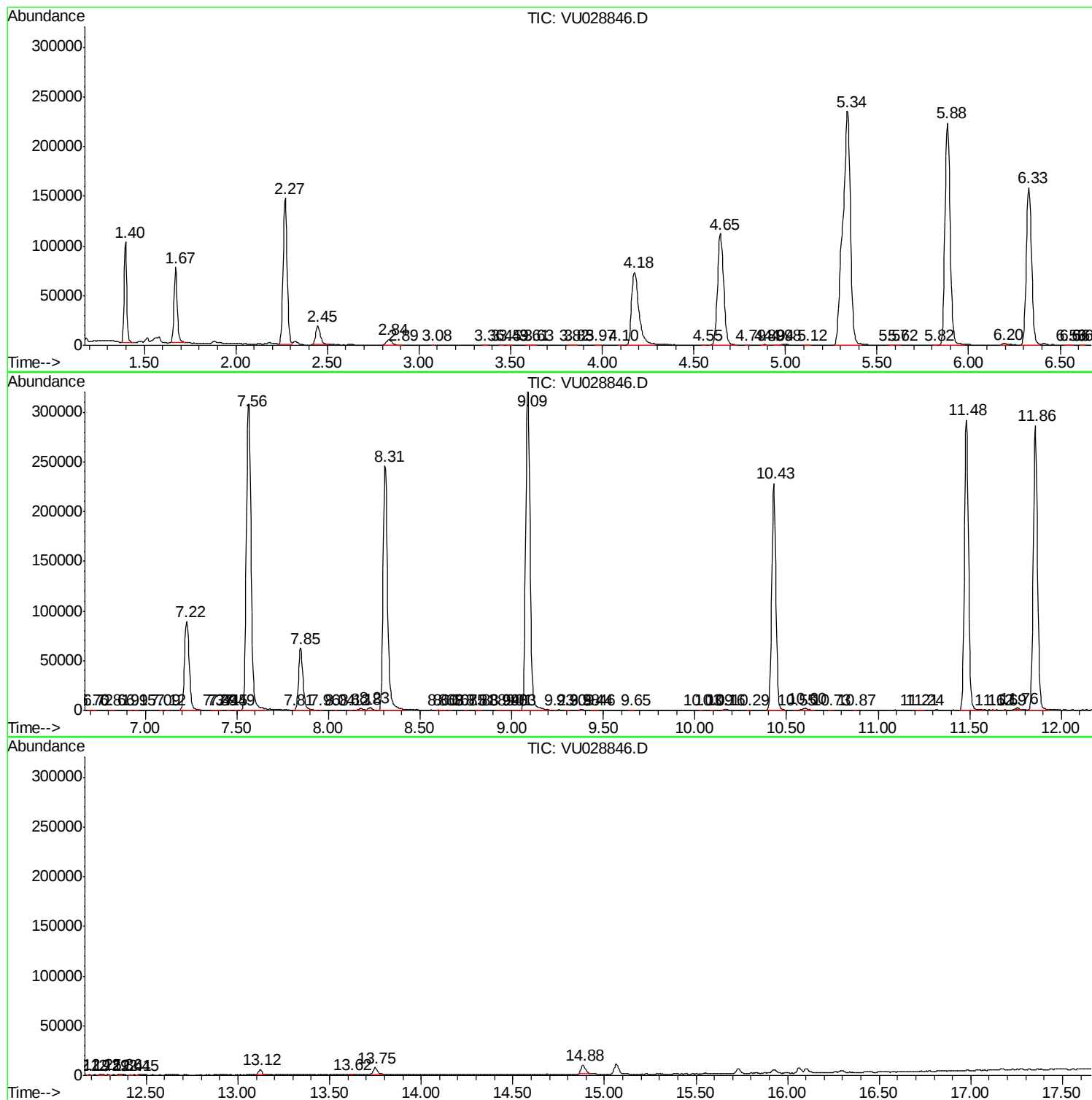
Sum of corrected areas: 5454157

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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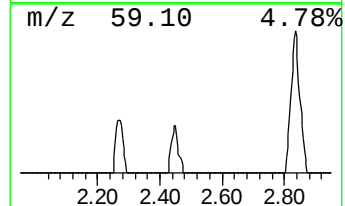
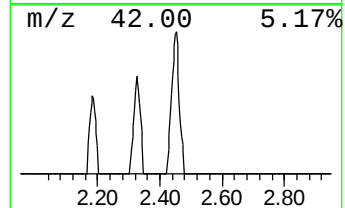
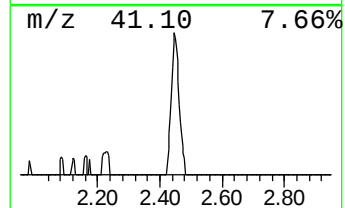
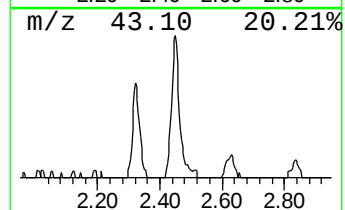
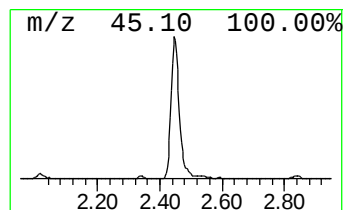
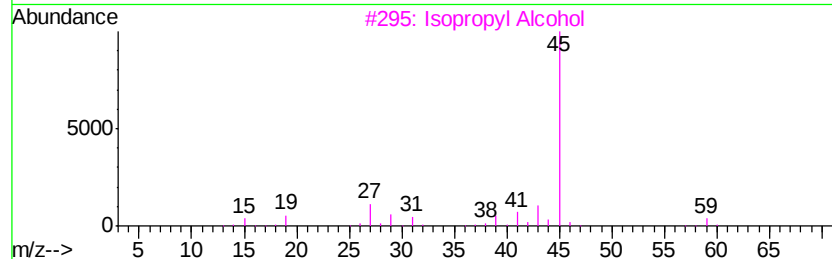
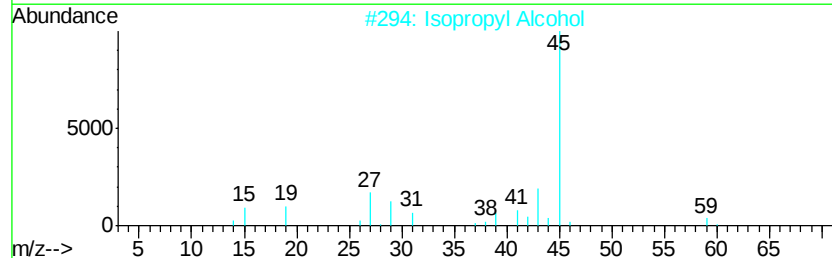
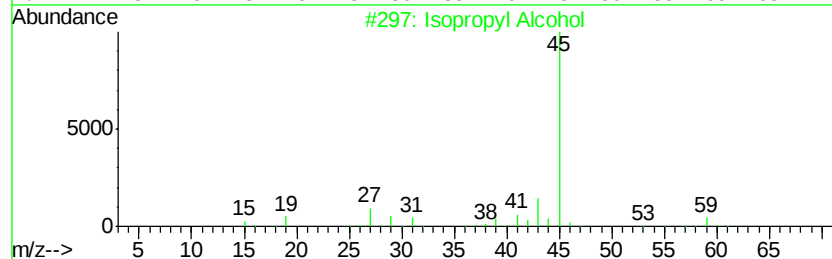
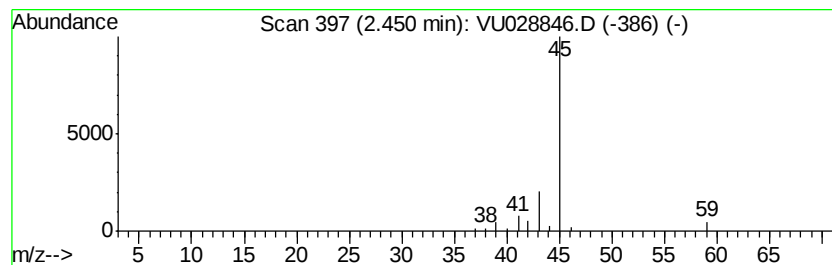
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Isopropyl Alcohol Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.45 | 3.90 ug/L | 34169 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------|----|---------|-------------|------|
| 1    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 64   |
| 2    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 43   |
| 3    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |
| 4    |    |   | Formamide         | 45 | CH3NO   | 000075-12-7 | 4    |
| 5    |    |   | 4-Penten-2-ol     | 86 | C5H10O  | 000625-31-0 | 4    |



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| TIC Top Hit name  | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|-------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                   |      |         |       |          | #                     | RT   | Resp   | Conc |
| Isopropyl Alcohol | 2.45 | 3.9     | ug/L  | 34169    | 1                     | 5.88 | 437591 | 50.0 |